

Human CD31 (PECAM-1) mouse monoclonal antibody (clone 7E8)

Catalog PODI-0083

Product specification sheet PS-PAb0083

Product description

CD31/ PECAM-1 (Platelet endothelial cell adhesion molecule) is a membrane glycoprotein with a molecular mass of approximately 130 kDa, mainly expressed by blood and vascular cells endothelial cells, platelets, monocytes and neutrophils. A detailed characterization of clone 7E8 is published by Metzelaar et al. (1991)

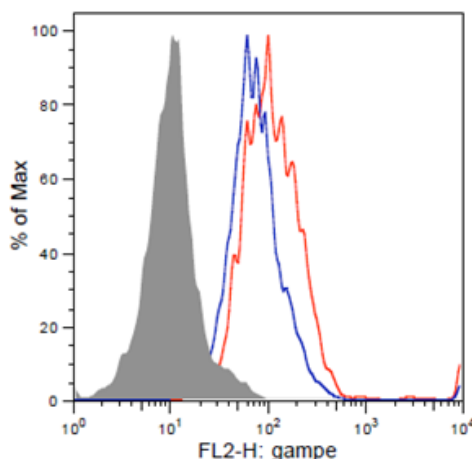
A molecular polymorphism at codon 125 was identified in the CD31, with either Leu or Val at this position. Anti-CD31 clone 7E8 bound to cells of the CD31.L type two to four times more than to those of the CD31.V type, as determined by FACS analysis (Behar et al., 1996)

Product type:	Primary antibodies
Clone number:	7E8
Immunogen:	Human platelets
Reacts with:	Human
Tested applications:	ELISA, FACS, IF
Purity:	GammaBind Plus sepharose purified , >95%
Isotype:	IgG1
Light chain type:	Kappa
Storage buffer:	PBS
Form:	Liquid
Concentration:	0.5 mg/ml

Storage and stability

Store at 4 °C, short term (1-2 weeks). For long-term storage, aliquot and keep at or below -20° C. Avoid repeated freeze-thaw cycles

Data



FACS analysis of Thp-1 monocyte cell line with anti-CD31 clone 7E8. Control cells or cells stimulated with 10 ng/ml LPS were stained with anti-CD31 (1 µg/ml) in PBS+1% BSA and with goat anti-mouse-PE conjugate. The blue and red histograms show staining of cells without or with LPS, respectively. The grey histogram corresponds to the isotype control

References

Metzelaar MJ, Korteweg J, Sixma JJ, Nieuwenhuis HK. Biochemical characterization of PECAM-1 (CD31 antigen) on human platelets. *Thromb Haemost.* 1991 Dec 2;66(6):700-7.

Behar E, Chao NJ, Hiraki DD, Krishnaswamy S, Brown BW, Zehnder JL, Grumet FC. Polymorphism of adhesion molecule CD31 and its role in acute graft-versus-host disease. *N Engl J Med.* 1996 Feb 1;334(5):286-91.

James L. Zehnder, Margaret Shatsky, Lawrence L.K. Leung, Eugene C. Butcher, John L. McGregor, and Lee J. Levitt. Involvement of CD31 in Lymphocyte-Mediated Immune Responses: Importance of the Membrane-Proximal Immunoglobulin Domain and Identification of an Inhibiting CD31 Peptide Blood, Vol 85, No 5 (March I), 1995: pp 1282.1288

James L. ZehnderS, Keiji Hirai, Margaret Shatsky, John L.McGregorQ, Lee J. Levittq, and Lawrence L. K. Leungll. The Cell Adhesion Molecule CD31 Is Phosphorylated after Cell Activation. *JBC* Vol. 267, No. 8, leaue of March 15, pp. 5243-5249,19922

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